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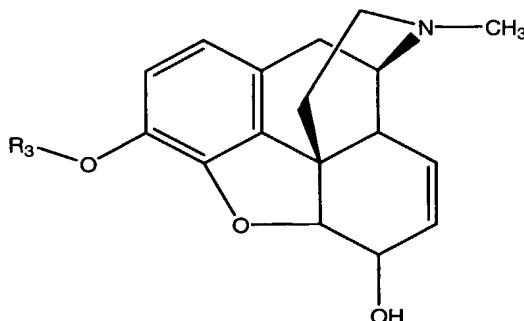
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(54) Title: METHODS FOR MAKING 3-O-PROTECTED MORPHINONES AND 3-O-PROTECTED MORPHINONE DIENOL CARBOXYLATES



(I)

(57) Abstract: Disclosed are methods for making aldehydes and ketones comprising allowing the corresponding primary or secondary alcohol to react in the presence of trichloroisocyanuric acid, a compound of formula  $R_1SR_2$  and a base. In one embodiment, the alcohol is a compound of formula (I) wherein  $R_3$  is a protecting group. Also disclosed are methods for making 3-O-protected morphine dienol carboxylates comprising allowing a compound of formula (I) to oxidize in the presence of a chlorine-containing compound and a compound of formula  $R_1SR_2$ ; and allowing the product of the oxidation step to react with an acylating agent.